

## New patent claims

1. A composition comprising a water-insoluble linear  $\alpha$ -1,4-D-glucan and/or a resistant starch obtainable therefrom, linear meaning that the degree of branching in the 2, 3 or 6 position does not exceed the value 0.5%, and at least one further food additive or feed additive.
2. The composition as claimed in claim 1, wherein the at least one further food additive or feed additive is selected from the group consisting of probiotics, prebiotics, vitamins and provitamins, antioxidants, oils and fats and fatty acids, and mixtures thereof.
3. The composition as claimed in either claim 1 or 2, wherein the at least one further food additive or feed additive is a probiotic, in particular a bifido bacterium.
4. The composition as claimed in one of claims 1 to 3, wherein the water-insoluble linear  $\alpha$ -1,4-D-glucan and/or the resistant starch obtainable therefrom acts as carrier material for the at least one food additive and feed additive.
5. The composition as claimed in one of claims 1 to 4, wherein the water-insoluble linear  $\alpha$ -1,4-D-glucan and/or the starch obtainable therefrom is present in the form of microparticles.
6. The composition as claimed in one of claims 1 to 5, wherein the food additive or feed additive is at least in part enrobed by the water-insoluble linear  $\alpha$ -1,4-D-glucan and/or the resistant starch obtainable therefrom.
7. The composition as claimed in claim 6, wherein the water-insoluble linear  $\alpha$ -1,4-D-glucan has a molecular weight  $M_w$  of from  $0.75 \times 10^2$  to  $10^7$  g/mol, preferably from  $10^3$  to  $10^6$  g/mol, and particularly preferably from  $10^3$  to  $10^5$  g/mol.
8. The composition as claimed in one of claims 1 to 7, wherein the water-insoluble linear  $\alpha$ -1,4-D-glucan is obtainable by in vitro

polymerization of glucose in the presence of an enzyme having amylsucrase activity.

- 5 9. The composition as claimed in one of claims 1 to 8 which is a foodstuff supplement.
- 10 10. Use of a composition as claimed in one of claims 1 to 9 for producing foodstuffs or foodstuff precursors.
- 10 11. A foodstuff or foodstuff precursor obtainable with the use of a composition as claimed in one of claims 1 to 9.
- 15 12. A resistant starch based on water-insoluble linear  $\alpha$ -1,4-D-glucans as medicament, where linear means that the degree of branching in the 2, 3 or 6 position does not exceed the value 0.5%.
13. The resistant starch as claimed in claim 12, wherein the medicament is a gastrointestinal composition.
- 20 14. A pharmaceutical or veterinary composition comprising a content of resistant starch based on water-insoluble linear  $\alpha$ -1,4-D-glucans, where linear means that the degree of branching in the 2, 3 or 6 position does not exceed the value 0.5%.
- 25 15. The composition as claimed in claim 14, additionally comprising a further functional additive.
16. The composition as claimed in claim 15, wherein the functional additive is a food additive or feed additive, in particular a probiotic, for example a bifido bacterium.
- 30 17. The composition as claimed in either claim 15 or 16, wherein the functional additive is a medicinal compound, in particular a therapeutic agent.
- 35 18. The use of resistant starch based on water-insoluble linear  $\alpha$ -1,4-D-glucans for producing a medicament for treating and/or preventing

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